THE ASTROPHYSICAL JOURNAL LETTERS

CONTENTS OF VOLUME 611, PART 2

2004 AUGUST 10, NUMBER 1

	Page
GALAXY SIZE EVOLUTION AT HIGH REDSHIFT AND SURFACE BRIGHTNESS SELECTION EFFECTS: CONSTRAINTS FROM THE HUBBLE ULTRA DEEP FIELD *R. J. Bouwens, G. D. Illingworth, J. P. Blakeslee, T. J. Broadhurst, and M. Franx*	L1
ELLIPTICAL GALAXIES AT $z = 0$ FROM SELF-CONSISTENT HYDRODYNAMIC SIMULATIONS: CLUES ON AGE EFFECTS IN THEIR STELLAR POPULATIONS *R. Domínguez-Tenreiro, A. Sáiz, and A. Serna*	L5
NONTHERMAL RADIATION PROCESSES IN X-RAY JETS *Charles D. Dermer and Armen Atoyan*	L9
THE X-RAY SPECTRUM OF THE $z = 6.30$ QSO SDSS J1030+0524 *D. Farrah, R. Priddey, R. Wilman, M. Haehnelt, and R. McMahon*	L13
A NEW CONTRIBUTOR TO CHEMICAL EVOLUTION IN HIGH-REDSHIFT GALAXIES *Takuji Tsujimoto*	L17
KINEMATICALLY COLD POPULATIONS AT LARGE RADII IN THE DRACO AND URSA MINOR DWARF SPHEROIDAL GALAXIES *Mark I. Wilkinson, Jan T. Kleyna, N. Wyn Evans, Gerard F. Gilmore, Michael J. Irwin, and Eva K. Grebel*	L21
THE VERY YOUNG RADIO PULSAR J1357−6429 *F. Camilo, R. N. Manchester, A. G. Lyne, B. M. Gaensler, A. Possenti, N. D'Amico, I. H. Stairs, A. J. Faulkner, M. Kramer, D. R. Lorimer, M. A. McLaughlin, and G. Hobbs*	L25
THE GALACTIC ^{26}Al PROBLEM AND THE CLOSE BINARY TYPE Ib/c SUPERNOVA SOLUTION? *J. C. Higdon, R. E. Lingenfelter, and R. E. Rothschild*	L29
WR 20a IS AN ECLIPSING BINARY: ACCURATE DETERMINATION OF PARAMETERS FOR AN EXTREMELY MASSIVE WOLF-RAYET SYSTEM Ⓔ *A. Z. Bonanos, K. Z. Stanek, A. Udalski, L. Wyrzykowski, K. Żebruń, M. Kubiak, M. K. Szymański, O. Szewczyk, G. Pietrzyński, and I. Soszyński*	L33
MIRA'S APPARENT SIZE VARIATIONS DUE TO A SURROUNDING SEMIOPAQUE H_2O LAYER *J. Weiner*	L37
NONTHERMAL Mg I EMISSION AT 12 MICRON FROM PROCYON *N. Ryde and M. J. Richter*	L41
AN EXTINCTION THRESHOLD FOR PROTOSTELLAR CORES IN OPHIUCHUS *Doug Johnstone, James Di Francesco, and Helen Kirk*	L45
THERMAL AND NONTHERMAL EMISSION IN SOLAR FLARES *Harry P. Warren and Spiro K. Antiochos*	L49
RHESSI OBSERVATIONS OF A SIMPLE LARGE X-RAY FLARE ON 2003 NOVEMBER 3 *Wei Liu, Yan Wei Jiang, Siming Liu, and Vahé Petrosian*	L53
BROADBAND MEASUREMENTS OF FACULAR PHOTOMETRIC CONTRAST USING THE SOLAR BOLOMETRIC IMAGER *Peter Foukal, Pietro Bernasconi, Harry Eaton, and David Rust*	L57
OBSERVATION OF THE MOLECULAR ZEEMAN EFFECT IN THE G BAND *A. Asensio Ramos, J. Trujillo Bueno, M. Bianda, R. Manso Sainz, and H. Uitenbroek*	L61
THE SUBMILLIMETER SPECTRUM OF CrH AND CrD ($X\,^6\Sigma^+$) *D. T. Halfen and L. M. Ziurys*	L65
INSTRUCTIONS TO AUTHORS OF LETTERS, AND ADDITIONAL USEFUL INFORMATION	*Inside Back Cover*
INSTRUCTIONS FOR ELECTRONIC MANUSCRIPT SUBMISSION	*Back Cover*

2004 AUGUST 20, NUMBER 2

	Page
EVIDENCE OF A COSMOLOGICAL STRÖMGREN SURFACE AND OF SIGNIFICANT NEUTRAL HYDROGEN SURROUNDING THE QUASAR SDSS J1030+0524 *Andrei Mesinger and Zoltán Haiman*	L69
THE EFFECT OF GAS COOLING ON THE SHAPES OF DARK MATTER HALOS Ⓔ *Stelios Kazantzidis, Andrey V. Kravtsov, Andrew R. Zentner, Brandon Allgood, Daisuke Nagai, and Ben Moore*	L73
TESTING LORENTZ INVARIANCE WITH GRB 021206 *Steven E. Boggs, C. B. Wunderer, K. Hurley, and W. Coburn*	L77
THE BRANCHING RATIO OF TYPE Ib/c SUPERNOVAE TO GAMMA-RAY BURST SUPERNOVAE *Maurice H. P. M. van Putten*	L81
THE EVOLUTIONARY SEQUENCE OF ACTIVE GALACTIC NUCLEI AND GALAXY FORMATION REVEALED *M. J. Page, J. A. Stevens, R. J. Ivison, and F. J. Carrera*	L85
LINKING GAS FRACTIONS TO BIMODALITIES IN GALAXY PROPERTIES *Sheila J. Kannappan*	L89
THE FULL-FLEDGED DWARF IRREGULAR GALAXY LEO A Ⓔ *Vladas Vansevičius, Nobuo Arimoto, Takashi Hasegawa, Chisato Ikuta, Pascale Jablonka, Donatas Narbutis, Kouji Ohta, Rima Stonkutė, Naoyuki Tamura, Valdas Vansevičius, and Yoshihiko Yamada*	L93
INTRADAY VARIATION OF SAGITTARIUS A* AT SHORT MILLIMETER WAVELENGTHS *Atsushi Miyazaki, Takahiro Tsutsumi, and Masato Tsuboi*	L97
ELECTRON ACCELERATION AROUND THE SUPERMASSIVE BLACK HOLE AT THE GALACTIC CENTER Ⓔ *Siming Liu, Vahé Petrosian, and Fulvio Melia*	L101
METALLICITY IN THE GALACTIC CENTER: THE ARCHES CLUSTER *Francisco Najarro, Donald F. Figer, D. John Hillier, and Rolf P. Kudritzki*	L105
GALACTIC CENTER EXTINCTION: EVIDENCE OF METALLIC NEEDLES IN THE GENERAL INTERSTELLAR MEDIUM *Eli Dwek*	L109
THE ROTATIONAL EXCITATION TEMPERATURE OF THE λ6614 DIFFUSE INTERSTELLAR BAND CARRIER *J. Cami, F. Salama, J. Jiménez-Vicente, G. A. Galazutdinov, and J. Krełowski*	L113
SHOCKED SELF-SIMILAR COLLAPSES AND FLOWS IN STAR FORMATION PROCESSES *Yue Shen and Yu-Qing Lou*	L117
THE CORRELATION BETWEEN HARD X-RAY PEAK FLUX AND SOFT X-RAY PEAK FLUX IN THE OUTBURST RISE OF LOW-MASS X-RAY BINARIES *Wenfei Yu, Michiel van der Klis, and Rob Fender*	L121
CORRELATED X-RAY AND OPTICAL VARIABILITY IN V404 CYGNI IN QUIESCENCE *R. I. Hynes, P. A. Charles, M. R. Garcia, E. L. Robinson, J. Casares, C. A. Haswell, A. K. H. Kong, M. Rupen, R. P. Fender, R. M. Wagner, E. Gallo, B. A. C. Eves, T. Shahbaz, and C. Zurita*	L125
LABORATORY DETECTION OF THE Lyβ 1150 Å QUASI-MOLECULAR SATELLITE SEEN IN *FAR ULTRAVIOLET SPECTROSCOPIC EXPLORER* OBSERVATIONS OF THE WHITE DWARF G226-29 Ⓔ *J. F. Kielkopf, N. F. Allard, and J. Huber*	L129
THE FIRST HOBBY-EBERLY TELESCOPE PLANET: A COMPANION TO HD 37605 *William D. Cochran, Michael Endl, Barbara McArthur, Diane B. Paulson, Verne V. Smith, Phillip J. MacQueen, Robert G. Tull, John Good, John Booth, Matthew Shetrone, Brian Roman, Stephen Odewahn, Frank Deglman, Michelle Graver, Michael Soukup, and Martin L. Villarreal, Jr.*	L133
EXOPLANET RECOGNITION USING A WAVELET ANALYSIS TECHNIQUE Ⓔ *E. Masciadri and A. Raga*	L137
TRANSVERSE STREAMING ANISOTROPIES OF CHARGED PARTICLES ACCELERATED AT THE SOLAR WIND TERMINATION SHOCK *J. R. Jokipii, J. Giacalone, and J. Kóta*	L141
ERRATUM: "A DISTANT EXTENDED SPIRAL ARM IN THE FOURTH QUADRANT OF THE MILKY WAY" (ApJ, 607, L127 [2004]) *N. M. McClure-Griffiths, John M. Dickey, B. M. Gaensler, and A. J. Green*	L145
INSTRUCTIONS TO AUTHORS OF LETTERS, AND ADDITIONAL USEFUL INFORMATION	*Inside Back Cover*
INSTRUCTIONS FOR ELECTRONIC MANUSCRIPT SUBMISSION	*Back Cover*